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(54) PRODUCTION OF TAXANE-TYPE DITERPENE

(57) Abstract:

PURPOSE: To efficiently obtain the subject compound useful as treating agent for ovarian cancer, breast cancer, lung cancer, etc., by culturing plant tissue or a cell capable of producing a taxane-type diterpene under controlling an oxygen concentration of the gas phase in a culture vessel or a dissolved oxygen concentration in a medium.

CONSTITUTION: Tissue and/or cell of a plant (e.g. *Taxus brevifolia* NUTT) capable of producing a taxane-type diterpene (e.g. taxol) is cultured. The cultivation is carried out under controlling the oxygen concentration of the gas phase in a culture vessel below atmospheric oxygen concentration, especially to 4-15% of the atmospheric oxygen concentration from the initial stage of the cultivation, or controlling the dissolved oxygen concentration of a fluid medium contacting the tissue and/or cell below the saturated dissolved oxygen concentration at the culture temperature, especially 1-75% of the saturated dissolved oxygen concentration from the initial stage of the cultivation. The product is

separated from the cultured liquid. The
objective taxane-type diterpene useful
as a treating agent for ovarian cancer,
breast cancer, lung cancer, etc., is
produced with excellent efficiency.

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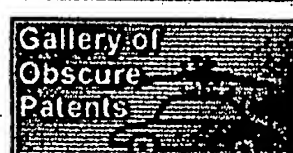
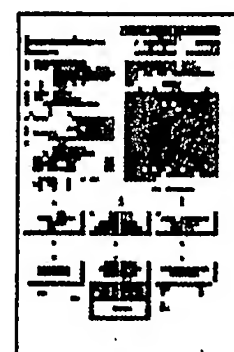
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HARA YASUHIRO;**Assignee: **MITSUI PETROCHEM IND LTD**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **Jan. 16, 1996 / June 28, 1994**Application
Number: **JP1994000146826**IPC Code: **C12P 17/02; A61K 31/045; A61K 35/78; C12P 17/02;**Priority Number: **June 28, 1994 JP1994000146826**

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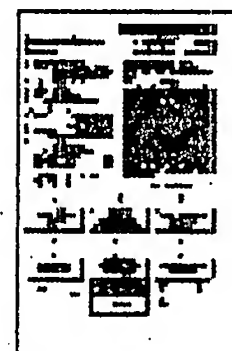
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Family:

PDF	Publication	Pub. Date	Filed	Title
	WO9514103A1	May 26, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	US20020012976A1	Jan. 31, 2002	April 28, 1999	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH

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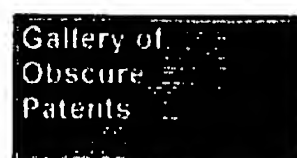
				PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE
	US6403343B2	June 11, 2002		
	US6403343	June 11, 2002	April 28, 1999	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	US5968789	Oct. 19, 1999	Feb. 28, 1997	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	US5637484	June 10, 1997	July 14, 1995	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	KR0172606B1	Feb. 1, 1999	July 5, 1995	PROCESS FOR PRODUCING TAXANE DITERPENE
	KR0169081B1	Jan. 15, 1999	June 18, 1998	METHOD OF HARVESTING CULTURED CELLS CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	KR0169080B1	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	KR0169079B1	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	JP8116981A2	May 14, 1996	Oct. 18, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8056681A2	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8056680A2	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8033490A2	Feb. 6, 1996	March 7, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8009983A2	Jan. 16, 1996	June 28, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP7308197A2	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	JP7308196A2	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	JP7135967A2	May 30, 1995	Nov. 15, 1993	PREPARATION OF CULTURED CELL HAVING HIGH PRODUCTIVITY OF TAXANE-TYPE DITERPENE
	JP2967034B2	Oct. 25, 1999		
	EP1063300A3	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1063300A2	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1063299A3	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1063299A2	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1054065B1	July 31, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining

				cultured cells which produce the taxane-type diterpene at a high rate
	<u>EP1054065A1</u>	Nov. 22, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	<u>EP0683232B1</u>	Feb. 14, 2001	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>EP0683232A4</u>	Nov. 29, 1995	Nov. 9, 1994	
	<u>EP0683232A1</u>	Nov. 22, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>DE69431135C0</u>	Sept. 5, 2002	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-TYP DITERPEN UND METHODE ZUR GEWINNUNG VON KULTURZELLEN DIE TAXAN-TYP DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>DE69426692T2</u>	June 21, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>DE69426692C0</u>	March 22, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>CN1251391A</u>	April 26, 2000	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTIVE CULTURE CELLS OF TAXIANES DITERPENE
	<u>CN1248630A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1248629A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1119028A</u>	March 20, 1996	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>CN1083012B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXANES DITERPENE
	<u>CN1083011B</u>	April 17, 2002	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTION CULTURE CELLS OF TAXANES DITERPENE
	<u>CN1083010B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1058054B</u>	Nov. 1, 2000	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>CA2153986AA</u>	May 26, 1995	Nov. 9, 1994	A METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE

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